

## CLAIMS

1. A radio communication system comprising a controller and a plurality of stations, each station comprising transmission and reception circuitry, in which peer-to-peer communication between stations takes place in time slots allocated by the controller, wherein a receiving station has means for storing information relating to a transmission parameter of each of the others of the plurality of stations and means for adjusting its receiver circuitry prior to reception of a signal from a transmitting station depending on the stored information relating to the transmission parameter of the transmitting station.

10 2. A system as claimed in claim 1, characterised in that the receiving station has means for storing a plurality of values for each transmission parameter relating to signals received at different times and means for operating on a plurality of these values to compensate for drift in the value of the transmission parameter.

15 3. A station for use in a radio communication system comprising a controller and a plurality of stations, each station comprising transmission and reception circuitry, in which peer-to-peer communication between stations takes place in time slots allocated by the controller, wherein the station has means for storing information relating to a transmission parameter of each of the others of the plurality of stations and means for adjusting its receiver circuitry prior to reception of a signal from a transmitting station depending on the stored information relating to the transmission parameter of the transmitting station.

20 4. A station as claimed in claim 3, characterised in that a transmission parameter is the frequency offset of signals from the transmitting station.

5. A station as claimed in claim 3, characterised in that a transmission parameter is the signal strength of signals from the transmitting station.

*claim 1*  
6. A station as claimed in ~~any one of claims 3 to 5~~, characterised in  
5 that means are provided for storing a plurality of values for each transmission parameter relating to signals received at different times and for operating on a plurality of these values to compensate for drift in the value of the transmission parameter.

7. A method of operating a radio communication system comprising  
10 a controller and a plurality of stations, each station comprising transmission and reception circuitry, in which peer-to-peer communication between stations takes place in time slots allocated by the controller, wherein a receiving station stores information relating to a transmission parameter of each of the others of the plurality of stations and adjusts its receiver circuitry prior to reception of a  
15 signal from a transmitting station depending on the stored information relating to the transmission parameter of the transmitting station.

8. A method as claimed in claim 7, characterised by a transmission parameter being the frequency offset of signals from the transmitting station.

9. A method as claimed in claim 7, characterised by a transmission  
20 parameter being the signal strength of signals from the transmitting station.

*claim 1*  
10. A method as claimed in ~~any one of claims 7 to 9~~, characterised  
by the receiving station storing a plurality of values for each transmission parameter relating to signals received at different times and operating on a plurality of these values to compensate for drift in the value of the transmission  
25 parameter.